

ABSTRACT

Method and apparatus to determine the channel to which a TV tuner is tuned from a
5 return loss ratio measurement circuit in a set top decoder. The method comprises generating
a plurality of probe signals having frequencies spread throughout the TV channel band,
preferably using harmonics of a zero order hold D/A converter. The return loss ratio of the
reflected probe signals is then determined and stored as a signature for the TV channel and
the signatures can subsequently be used along with new return loss ratio measurements to
10 determine the TV channel to which a TV or VCR tuner is tuned.